



1FW

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited
with the United States Postal Service with sufficient postage
as First Class Mail in an envelope addressed to:
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
on the date set forth below.

(signature)

Date of signature and deposit -

December 28, 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:)
BRADY REUBEN DAVIES) Confirmation No. TBA
)
Serial No. 10/590954) Group Art Unit: TBA
)
Filed: August 28, 2006) Examiner TBA
)
For: Selective Bonding for) Attorney Docket 1-24871
Forming a Microvalve)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Honorable Sir:

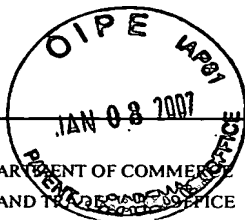
Pursuant to 37 C.F.R. 1.97(b), record is hereby made of information that the Patent Office may wish to consider in connection with its examination of the above-identified application. A completed PTO/SB/O8 form is enclosed along with copies of any such information with the exception of U.S. patent documents. As of the date of mailing of this paper a first office action on the merits has not been mailed the above-identified application.

Respectfully submitted,

James D. Schweikert

Reg. No. 58,057

MacMillan, Sobanski & Todd, LLC
One Maritime Plaza, Fifth Floor
720 Water Street
Toledo, Ohio 43604
(419) 255-5900



PTO/SB/08a (07-05)

(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLICATION NUMBER	10/590954	
	FILING DATE	August 28, 2006	
	FIRST NAMED INVENTOR	BRADY REUBEN DAVIES	
	ART UNIT	TBA	
	EXAMINER NAME	TBA	
SHEET 1 OF 5		ATTORNEY DOCKET NUMBER	1-24871

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE No. ¹	DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		NUMBER-KIND CODE ² (IF KNOWN)			
		0,886,045	04-28-1908	EHRlich ET AL.	
		1,886,205	11-01-1932	LYFORD	
		1,926,031	09-12-1933	BOYNTON	
		2,412,205	12-10-1946	COOK	
		2,504,055	04-11-1950	THOMAS	
		2,840,107	06-24-1958	CAMPBELL	
		2,875,779	03-03-1959	CAMPBELL	
		3,031,747	05-01-1962	GREEN	
		3,729,807	05-01-1973	FUJIWARA	
		3,747,628	07-24-1973	HOLSTER ET AL.	
		3,860,949	01-14-1975	STOECKERT ET AL.	
		4,005,454	01-25-1977	FROLOFF ET AL.	
		4,019,388	04-26-1977	HALL, II ET AL.	
		4,023,725	05-17-1977	IVETT ET AL.	
		4,152,540	05-01-1979	DUNCAN ET AL.	
		4,181,249	01-01-1980	PETERSON ET AL.	
		4,298,023	11-03-1981	MCGINNIS	
		4,341,816	07-27-1982	LAUTERBACH ET AL.	
		4,434,813	03-06-1984	MON	
		4,581,624	04-08-1986	O'CONNOR	
		4,628,576	12-16-1986	GIACHINO ET AL.	
		4,647,013	03-03-1987	GIACHINO ET AL.	
		4,661,835	04-28-1987	GADEMANN ET AL.	
		4,772,935	09-20-1988	LAWLER ET AL.	
		4,821,997	04-18-1989	ZDEBLICK	
		4,824,073	04-25-1989	ZDEBLICK	
		4,826,131	05-02-1989	MIKKOR	
		4,828,184	05-09-1989	GARDNER ET AL.	
		4,869,282	09-26-1989	SITTLER ET AL.	
		4,938,742	07-03-1990	SMITS	
		4,943,032	07-24-1990	ZDEBLICK	
		4,959,581	09-25-1990	DANTLGRABER	
		4,966,646	10-30-1990	ZDEBLICK	
		5,029,805	07-09-1991	ALBARDA ET AL.	
		5,037,778	08-06-1991	STARK ET AL.	
		5,050,838	09-24-1991	BEATTY ET AL.	
		5,054,522	10-08-1991	KOWANZ ET AL.	

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ²For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICATION NUMBER	10/590954
	FILING DATE	August 28, 2006
	FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
	ART UNIT	TBA
	EXAMINER NAME	TBA
SHEET 2 OF 5	ATTORNEY DOCKET NUMBER	1-24871

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE No. ¹	DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICATE OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		NUMBER-KIND CODE ² (IF KNOWN)			
		5,058,856	10-22-1991	GORDON ET AL.	
		5,061,914	10-29-1991	BUSCH ET AL.	
		5,064,165	11-12-1991	JERMAN	
		5,065,978	11-19-1991	ALBARD A ET AL.	
		5,066,533	11-19-1991	AMERICA ET AL.	
		5,069,419	12-03-1991	JERMAN	
		5,074,629	12-24-1991	ZDEBLICK	
		5,082,242	01-21-1992	BONNE ET AL.	
		5,096,643	03-17-1992	KOWANZ ET AL.	
		5,116,457	05-26-1992	JERMAN	
		5,131,729	07-21-1992	WETZEL	
		5,133,379	07-28-1992	JACOBSEN ET AL.	
		5,142,781	09-01-1992	METTNER ET AL.	
		5,161,774	11-10-1992	ENGELSDORF ET AL.	
		5,169,472	12-08-1992	GOEBEL	
		5,176,358	01-05-1993	BONNE ET AL.	
		5,177,579	01-05-1993	JERMAN	
		5,178,190	01-12-1993	METTNER	
		5,179,499	01-12-1993	MACDONALD ET AL.	
		5,180,623	01-19-1993	OHNSTEIN	
		5,197,517	03-30-1993	PERERA	
		5,209,118	05-11-1993	JERMAN	
		5,215,244	06-01-1993	BUCHHOLZ ET AL.	
		5,216,273	06-01-1993	DOERING ET AL.	
		5,217,283	06-08-1993	WATANABE	
		5,238,223	08-24-1993	METTNER ET AL.	
		5,244,537	09-14-1993	OHNSTEIN	
		5,267,589	12-07-1993	WATANABE	
		5,271,431	12-21-1993	METTNER ET AL.	
		5,271,597	12-21-1993	JERMAN	
		5,309,943	05-10-1994	STEVENSON ET AL.	
		5,325,880	07-05-1994	JOHNSON ET AL.	
		5,333,831	08-02-1994	BARTH ET AL.	
		5,336,062	08-09-1994	RICHTER	
		5,355,712	10-18-1994	PETERSEN ET AL.	
		5,368,704	11-29-1994	MADOU ET AL.	
		5,375,919	12-27-1994	FURUHASHI	

EXAMINER	DATE CONSIDERED
----------	-----------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ²For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	APPLICATION NUMBER	10/590954
	FILING DATE	August 28, 2006
	FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
	ART UNIT	TBA
	EXAMINER NAME	TBA
SHEET 3 OF 5	ATTORNEY DOCKET NUMBER	1-24871

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE No. ¹	DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		NUMBER-KIND CODE ² (IF KNOWN)			
		5,400,824	03-28-1995	GSCHWENDTNER ET AL.	
		5,417,235	05-23-1995	WISE ET AL.	
		5,445,185	08-29-1995	WATANABE ET AL.	
		5,458,405	10-17-1995	WATANABE	
		5,553,790	09-10-1996	FINDLER ET AL.	
		5,566,703	10-22-1996	WATANABE ET AL.	
		5,577,533	11-26-1996	COOK, JR.	
		5,611,214	03-18-1997	WEGENG ET AL.	
		5,785,295	07-28-1998	TSAI	
		5,810,325	09-22-1998	CARR	
		5,838,351	11-17-1998	WEBER	
		5,848,605	12-15-1998	BAILEY ET AL.	
		5,873,385	02-23-1999	BLOOM ET AL.	
		5,909,078	06-01-1999	WOOD ET AL.	
		5,926,955	07-27-1999	KOBER	
		5,941,608	08-24-1999	CAMPAU ET AL.	
		5,954,079	09-21-1999	BARTH ET AL.	
		5,955,817	09-21-1999	DHULER ET AL.	
		5,970,998	10-26-1999	TALBOT ET AL.	
		5,994,816	11-30-1999	DHULER ET AL.	
		6,019,437	02-01-2000	BARRON ET AL.	
		6,023,121	02-08-2000	DHULER ET AL.	
		6,038,928	03-21-2000	MALUF ET AL.	
		6,105,737	08-22-2000	WEIGERT ET AL.	
		6,114,794	09-05-2000	DHULER ET AL.	
		6,171,972	01-09-2001	MEHREGANY ET AL.	
		6,279,606	08-28-2001	HUNNICUTT ET AL.	
		6,390,782	05-21-2002	BOOTH ET AL.	
		6,494,804	12-17-2002	HUNNICUTT ET AL.	
		6,505,811	01-14-2003	BARRON ET AL.	
		6,523,560	02-25-2003	WILLIAMS ET AL.	
		6,533,366	03-18-2003	BARRON ET AL.	
		6,540,203	04-01-2003	HUNNICUTT	
		6,581,640	06-24-2003	BARRON	
		6,637,722	10-28-2003	HUNNICUTT	
		6,761,420	07-13-2004	MALUF ET AL.	
		6,845,962	01-25-2005	BARRON ET AL.	

EXAMINER

DATE CONSIDERED

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ³For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

(SUBSTITUTE FOR FORM 1449A/PTO) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	APPLICATION NUMBER	10/590954
	FILING DATE	August 28, 2006
	FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
	ART UNIT	TBA
	EXAMINER NAME	TBA
SHEET 4 OF 5	ATTORNEY DOCKET NUMBER	1-24871

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	CITE No. ¹	DOCUMENT NUMBER	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICATE OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		NUMBER-KIND CODE ² (IF KNOWN)			
		2002/0174891	11-28-2002	MALUF ET AL.	
		2003/0092526	05-15-2003	HUNNICUTT ET AL.	
		2003/0098612	05-29-2003	MALUF ET AL.	
		2006/0218953	10-05-2006	HIROTA	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	CITE No. ¹	FOREIGN PATENT DOCUMENT	PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICATE OF CITED DOCUMENT	PAGES, COLUMNS, LINES WHERE RELEVANT PASSAGES OR RELEVANT FIGURES APPEAR
		COUNTRY CODE NUMBER KIND CODE			
		DE2215526	10-04-1973	LICENTIA GMBH	
				TOKYO SHIBAURA ELECTRIC CO	
		DE2930779	02-07-1980		
		DE3401404	07-25-1985	BOSCH GMBH ROBERT (DE)	
		DE4101575	07-23-1992	BOSCH GMBH ROBERT (DE)	
		DE4417251	11-23-1995	BOSCH GMBH ROBERT (DE)	
		DE4422942	01-04-1996	BOSCH GMBH ROBERT (DE)	
				FRAUNHOFER GES FORSCHUNG (DE)	
		EP250948	01-07-1988		
		EP261972	03-30-1988	UNIV LELAND STANFORD JUNIOR (US)	
		GB2238267	05-29-1991	STC PLC (GB)	
				LUCAS NOVASENSOR (US) et al.	
		WO00/14415	03-16-2000		
		WO99/16096	04-01-1999	MCNC et al.	

EXAMINER	DATE CONSIDERED
----------	-----------------

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ²Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ³For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

SHEET 5 OF 5

APPLICATION NUMBER	10/590954
FILING DATE	August 28, 2006
FIRST NAMED INVENTOR	BRADY REUBEN DAVIES
ART UNIT	TBA
EXAMINER NAME	TBA
ATTORNEY DOCKET NUMBER	1-24871

[illegible]

EXAMINER

DATE CONSIDERED

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not

***Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**